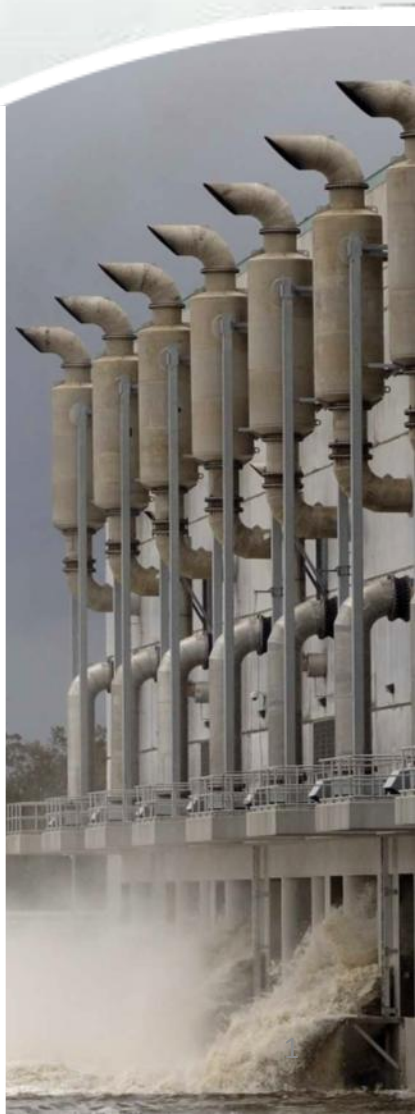
USACE New Orleans District

USACE Midwest Regional Seminar, Oct. 18, 2012

Col. Ed Fleming

New Orleans District Commander



US Army Corps of Engineers

BUILDING STRONG®

Our Mission Statement

The New Orleans District provides comprehensive water resources management to include navigation, hurricane and storm damage risk reduction and environmental stewardship for south Louisiana in order to ensure public safety and benefit the nation. On order, conduct contingency operations as well as support to the National Response Framework.

Our Organization

★**9** Divisions world wide

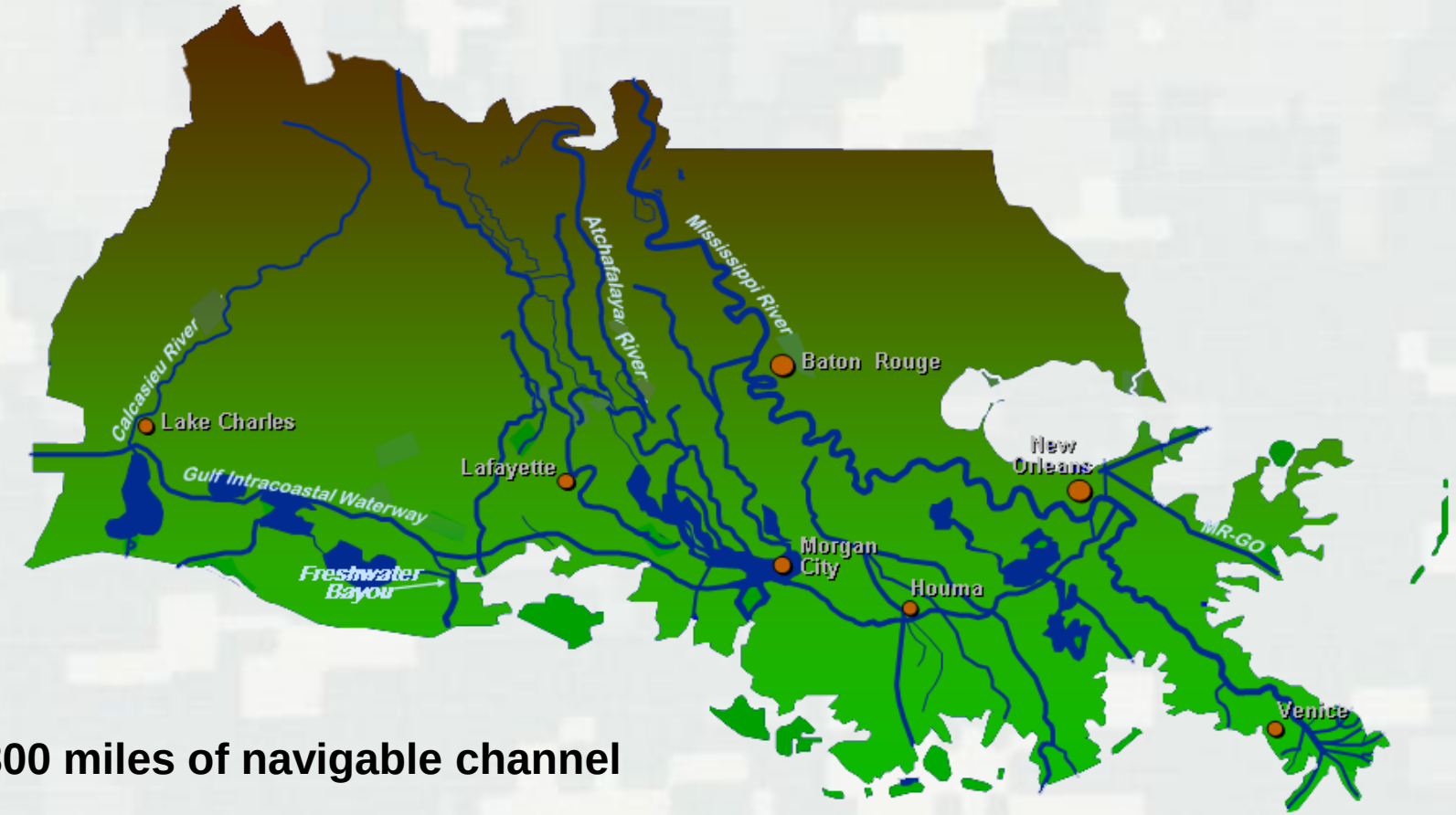
★**43** Districts

★Covers the entire US and **91** other countries

★**34,600** civilian employees

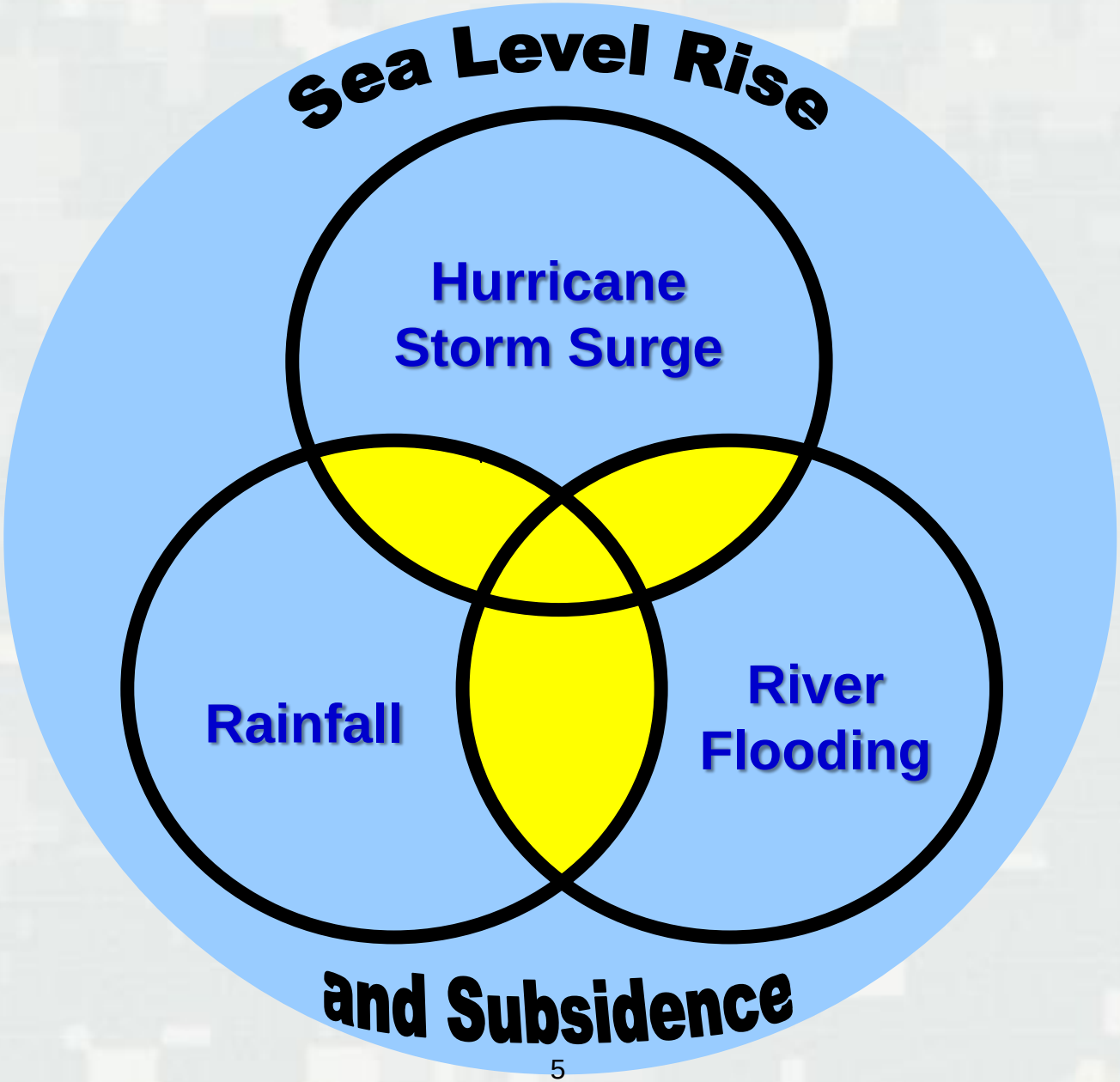
★**650** military members

New Orleans District

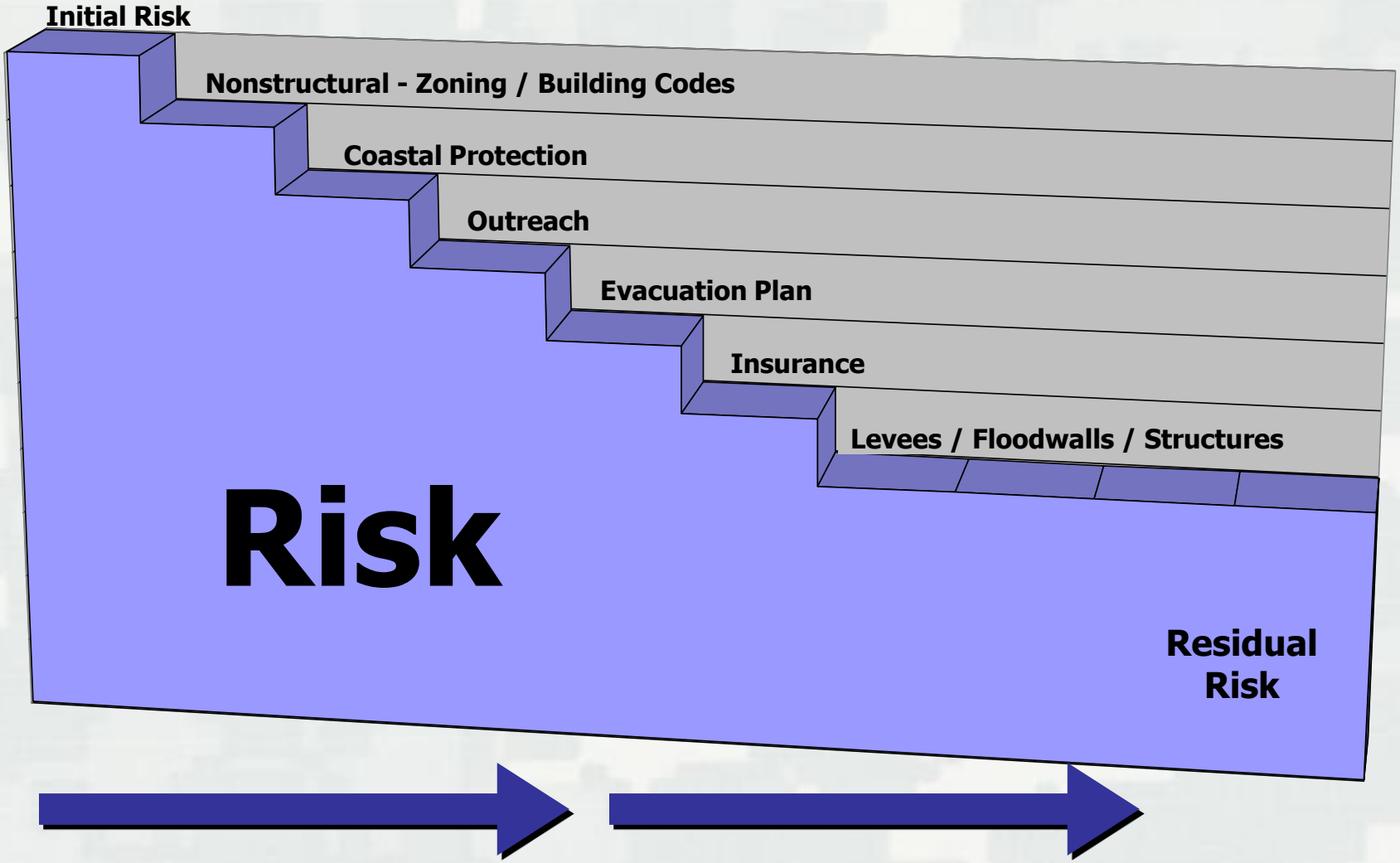


- 2,800 miles of navigable channel
- 14,500 miles of coastline
- 973 MR&T miles of levees
- 325 miles of hurricane levees
- 18 locks and control structures
- 15 pumping plants
- 13 recreation areas

The Three Major Flood Risks in Coastal LA



Risk Shared Responsibility



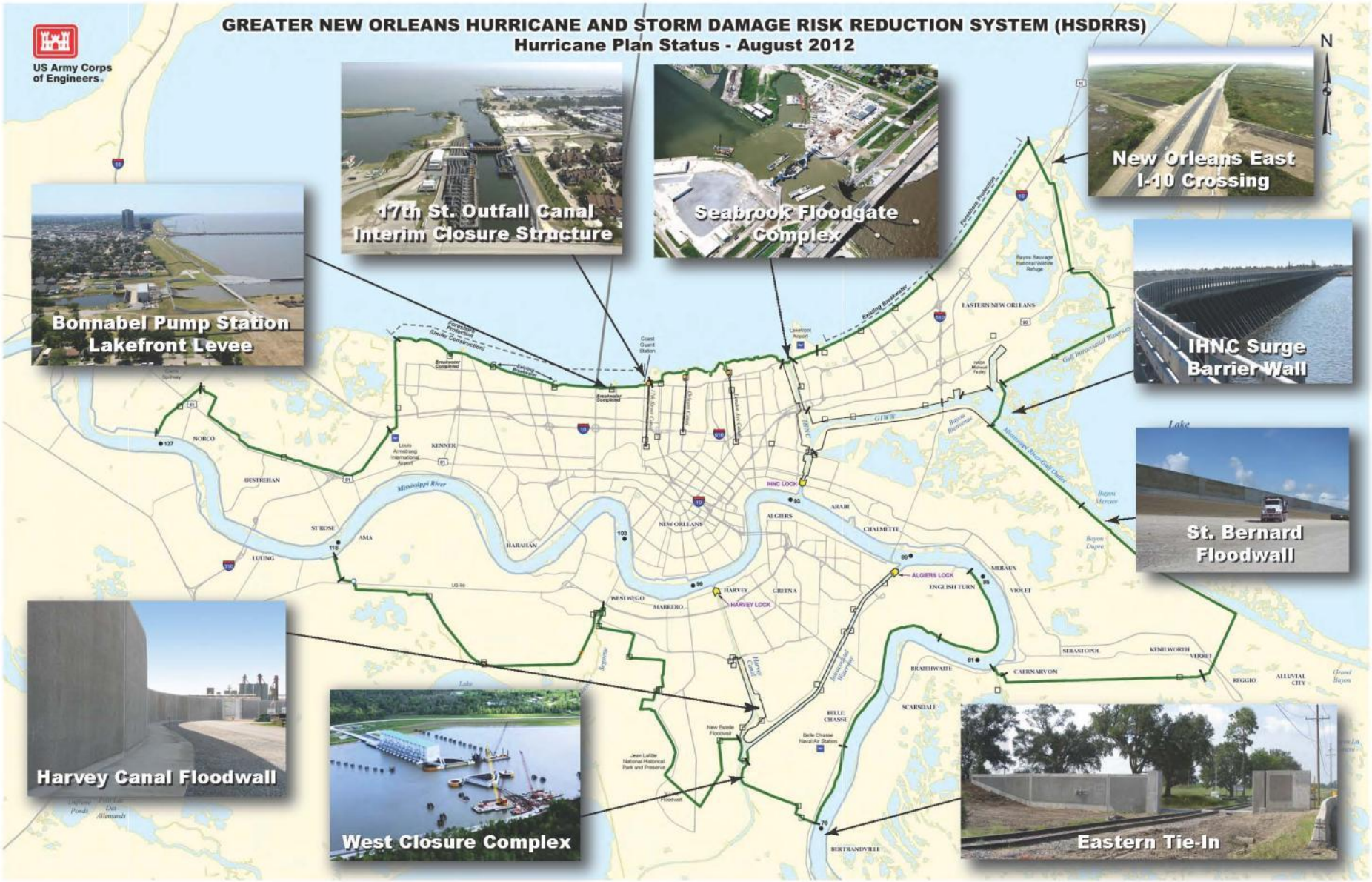
Multiple Lines of Defense

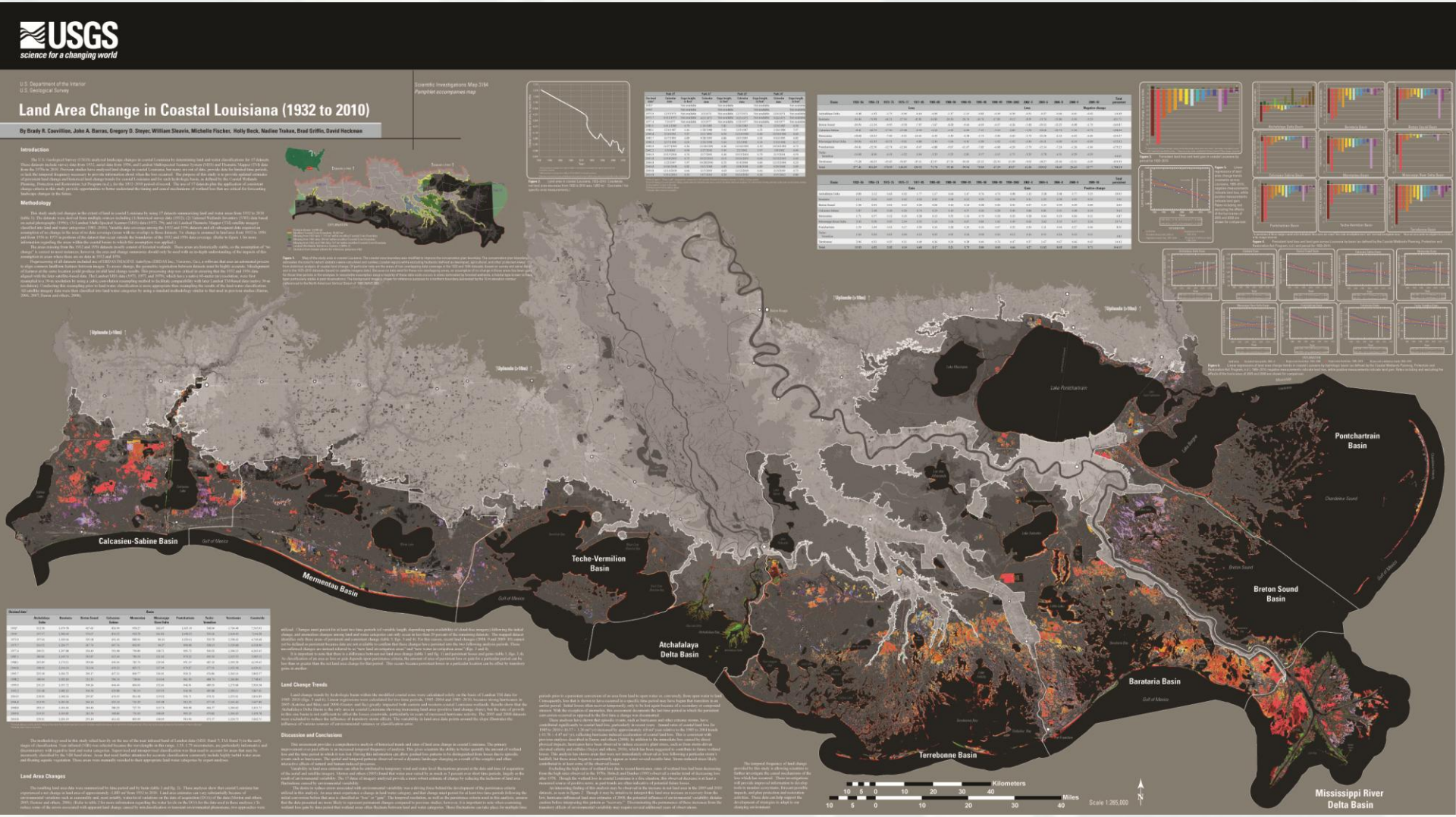
(Graphic from www.mlods.org)

Elements include:

- Coastal restoration/protection
- Structural measures
- Non-structural features

Perimeter “Defense”




USGS
science for a changing world
U.S. Department of the Interior
U.S. Geological Survey
Scientific Investigations Map 3164
Pamphlet accompanies map
Land Area Change in Coastal Louisiana (1932 to 2010)
By Brady R. Couvillion, John A. Barras, Gregory D. Steyer, William Sleavis, Michelle Fischer, Holly Beck, Nadine Trahan, Brad Griffin, David Heckman
Introduction
Methodology
Land Area Changes
Land Change Trends
Discussion and Conclusions
Calcasieu-Sabine Basin
Mermentau Basin
Teche-Vermilion Basin
Atchafalaya Delta Basin
Terrebonne Basin
Barataria Basin
Breton Sound Basin
Pontchartrain Basin
Mississippi River Delta Basin
Lake Pontchartrain
Gulf of Mexico
Kilometers
Miles
Scale 1:265,000

Major Causes Of Wetland Loss

Barrier Island Degradation

Subsidence

Storms

Sea Level Rise

Salt Water Intrusion

Sediment Reduction

Canals

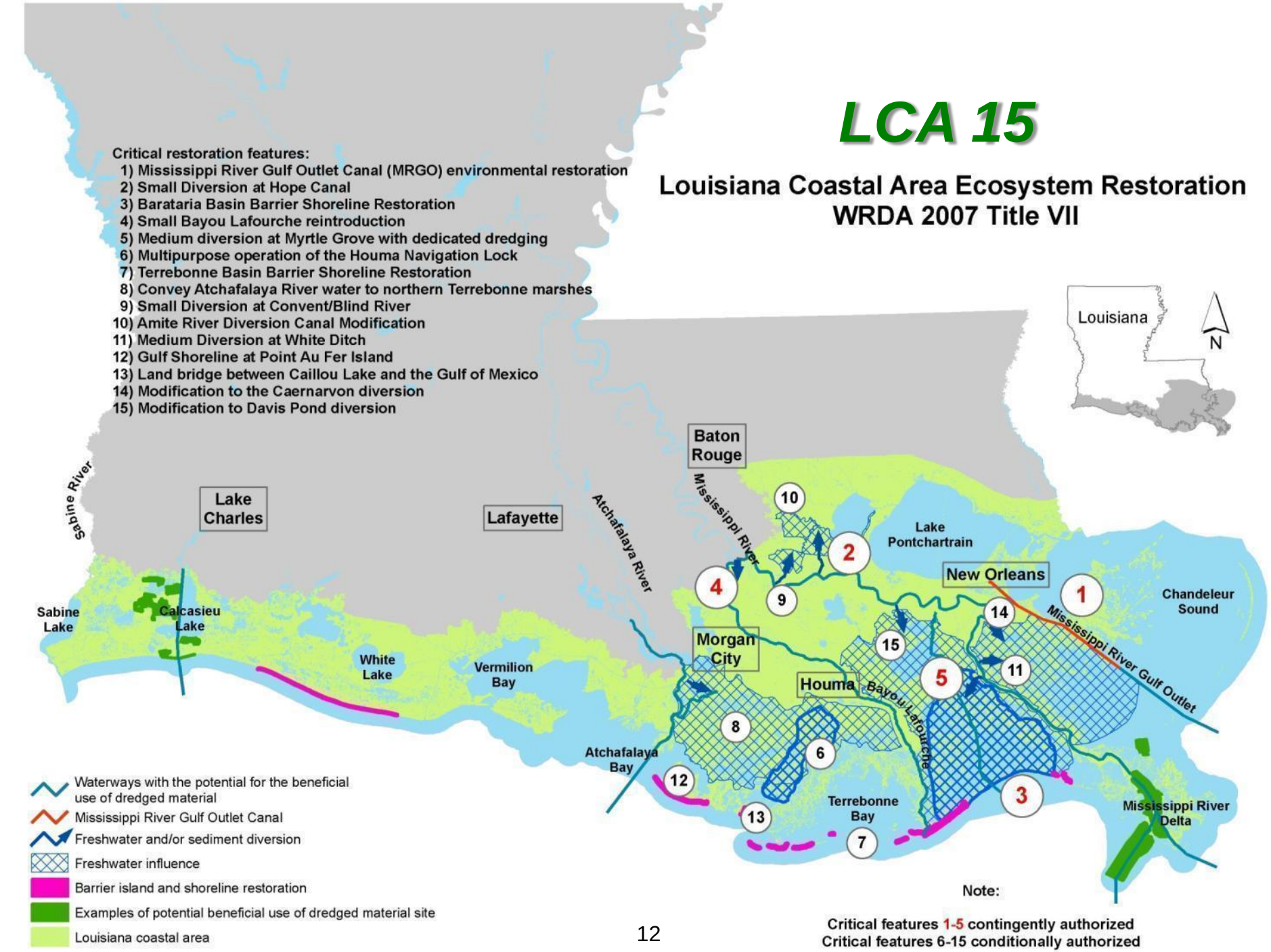
Oil & Gas Development

Levee System


Louisiana
Sustainable Coast
Land & Marsh Creation
Diversions
Barrier Island Restoration
Cameron Parish
Coastal
Marsh Restoration
Grand Isle
Davis Pond
Freshwater
Diversion

LCA 15

Louisiana Coastal Area Ecosystem Restoration
WRDA 2007 Title VII

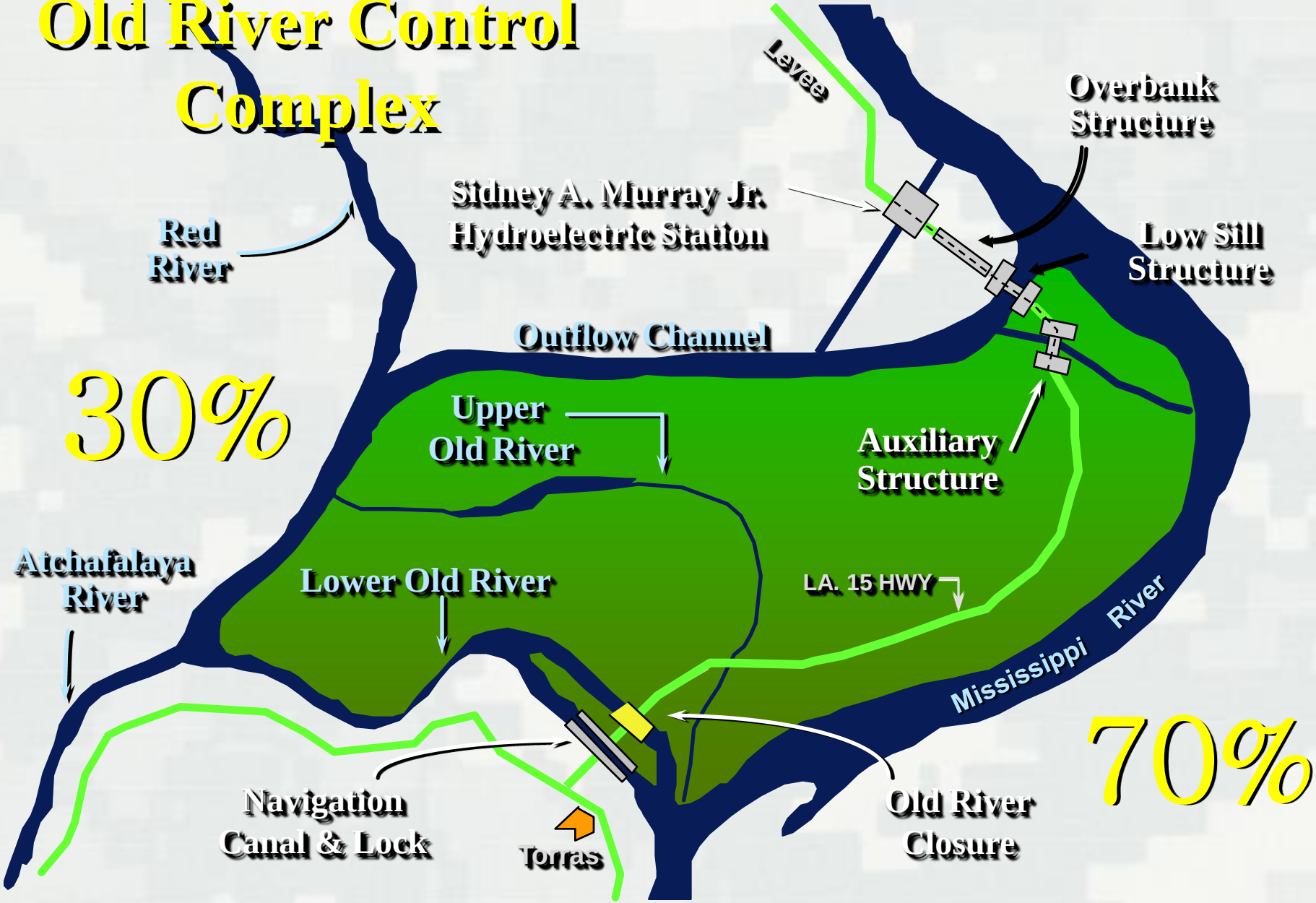


Flood Control

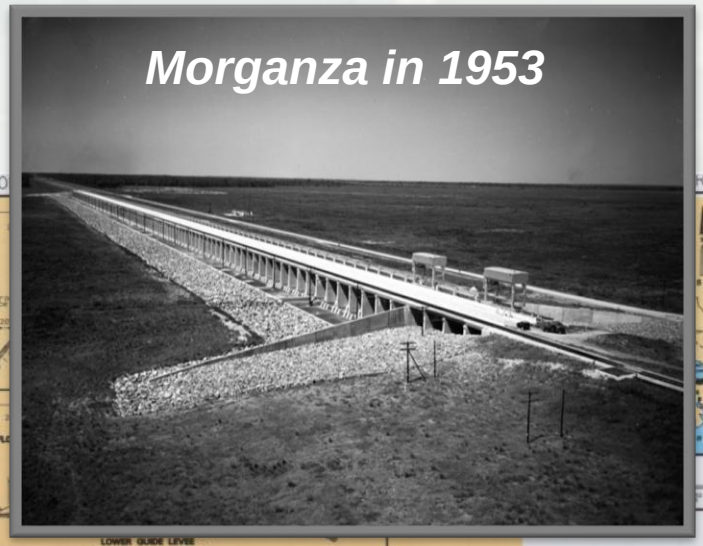
Mississippi River & Tributaries Project

- 973 miles of levees in New Orleans District
- 3 Flood Control Structures

Old River Control Complex



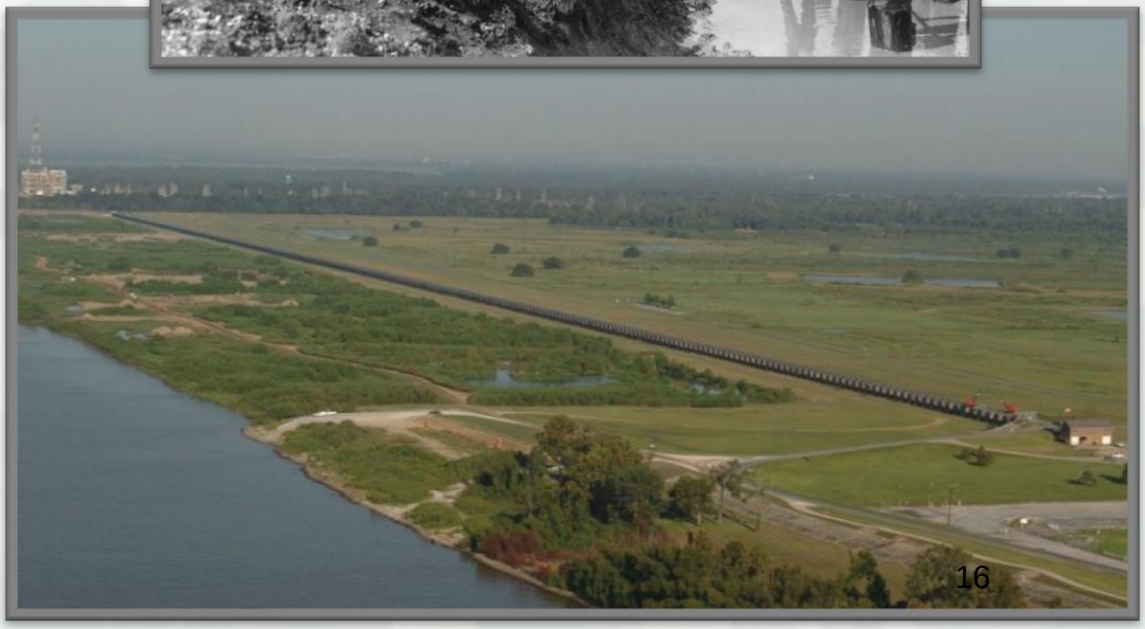
Morganza Floodway



- **Distance above New Orleans:** 186 river miles
- **Length of weir opening:** 3,906 feet
- **# of gate bays:** 125
- **Width of bays:** 28 feet 3 inches, separated by piers 3 feet wide

- **Design flow:** 600,000 cfs
- **Length of floodway:** approx. 20 miles
- **Width at river:** approx. 5 feet
- **Frequency of operation:** 1973 and 2011

Bonnet Carré Spillway



- **Distance above New Orleans:** 32.8 river miles
- **Length of weir opening:** 7,000 feet
- **# of bays:** 350
- **Width of bays:** 20 feet
- **# of creosoted timbers:** 20 per bay
- **Design flow:** 250,000 cfs
- **Length from structure to lake:** 5.7 miles
- **Width at river:** 7,700 feet
- **Frequency of operation:** approx. every 10 years

Questions?


U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
SERVING THE ARMY